

ABSTRACT OF THE DISCLOSURE

At each node of the data transmission/reception system of the present invention on a bus of an IEEE 1394, the following operations are sequentially performed: necessary initialization at the time of bus resetting; and GUID acquisition, restoration of Broadcast-out connection, restoration of Broadcast-in connection, and restoration of Point-to-point connection according to a restoration connection queue registering an execution order of respective connection restoration operations if there is a PENDING status of each connection before a passage of a predetermined time, after the bus resetting. Moreover, the restoration of each connection is subdivided into a plurality of processing steps when necessary, and controlled to select a proper processing step.